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SEP 26 2000

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/534,825A

DATE: 09/25/2000

TIME: 11:22:28

Input Set : A:\419c7.app

Output Set: N:\CRF3\09252000\I534825A.raw

3 <110> APPLICANT: Frudakis, Tony N.
 4 Smith, John M.
 5 Reed, Steven G.
 6 Misher, Lynda
 7 Retter, Marc W.
 8 Dillon, Davin C.
 11 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
 12 TREATMENT AND DIAGNOSIS OF BREAST CANCER
 15 <130> FILE REFERENCE: 210121.419C7
 17 <140> CURRENT APPLICATION NUMBER: US/09/534,825A
 18 <141> CURRENT FILING DATE: 2000-03-23
 20 <160> NUMBER OF SEQ ID NOS: 317
 22 <170> SOFTWARE: FastSEQ for Windows Version 3.0
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 25 <211> LENGTH: 363
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Homo sapien
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 31 gacgatttcc accggtatct cctcgtgggt attcagggag ctgcccagaa acctataaac 120
 32 ttgtctaagg cgattgaagt cgtccagggg catgatgagt caccaggagt gtttttagag 180
 33 cacctccagg aggtttatcg gatttacacc ccttttgacc tggcagcccc cgaaaatagc 240
 34 catgctctta atttggcatt tgtggctcag gcagccccag atagtaaaag gaaactccaa 300
 35 aaactagagg gattttgctg gaatgaatac cagtcagctt ttagagatag cctaaaaggt 360
 36 ttt 363
 38 <210> SEQ ID NO: 2
 39 <211> LENGTH: 121
 40 <212> TYPE: PRT
 41 <213> ORGANISM: Homo sapien
 43 <400> SEQUENCE: 2
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 45 1 5 10 15
 46 Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln
 47 20 25 30
 48 Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Ala Ile Glu Val Val
 49 35 40 45
 50 Gln Gly His Asp Glu Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu
 51 50 55 60
 52 Ala Tyr Arg Ile Tyr Thr Pro Phe Asp Leu Ala Ala Pro Glu Asn Ser
 53 65 70 75 80
 54 His Ala Leu Asn Leu Ala Phe Val Ala Gln Ala Ala Pro Asp Ser Lys
 55 85 90 95
 56 Arg Lys Leu Gln Lys Leu Glu Gly Phe Cys Trp Asn Glu Tyr Gln Ser
 57 100 105 110
 58 Ala Phe Arg Asp Ser Leu Lys Gly Phe
 59 115 120
 61 <210> SEQ ID NO: 3

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P.5

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62 <211> LENGTH: 1080
63 <212> TYPE: DNA
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67 <221> NAME/KEY: misc_feature
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69 <223> OTHER INFORMATION: n = A,T,C or G
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74 tcttcaaagc ctaacagatc aagcagctct ccggtgcaca acctgcgccc aggtaaatgc      180
75 caaaaaaggt cctaaaccca gccaggcca ccgtctccaa gaaaactcac caggagaaaa      240
76 gtgggaaatt gactttacag aagtaaaacc acaccgggct gggtagacaa accttctagt      300
77 actggtagac accttctctg gatggaactg agcatttgct accaaaaacg aaactgtcaa      360
78 tatggtagtt aagtttttac tcaatgaaat catccctcga cgtgggctgc ctgttgccat      420
79 aggtctctgat aatggaacgg ccttcgcctt gtctatagtt taatcagtcg gtaaggcggt      480
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82 tgttagtctc cttcccttag ccctacttag agttaagggt caccctctac tgggctgggt      660
W--> 83 tctttacctt ttgaaatcat ntttnggaag gggctgccta tctttnctta actaaaaaan      720
W--> 84 gccatttgg caaaaatttc ncaactaatt tntacgtnc cactctccc caacagggtan      780
W--> 85 aaaaatctnc tgcccttttc aaggaaacct cccatccatt cctnaacaaa aggcctgccn      840
W--> 86 ttcttcccc agttaactnt ttttnttaa aattcccaaa aaangaacn cctgtggaa      900
W--> 87 aaacncccc ctccaanccc cgccnaagn ggaaggttcc cttgaatccc ncccccnna      960
W--> 88 anggccgga acctntaaan tngttcngg gggtnnggcc taaaagnccn atttggtaaa      1020
W--> 89 cctanaaatt ttttcttttn taaaaaccac nntttnnttt ttcttaaaaca aaacctnttt      1080
91 <210> SEQ ID NO: 4
92 <211> LENGTH: 1087
93 <212> TYPE: DNA
94 <213> ORGANISM: Homo sapien
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97 <221> NAME/KEY: misc_feature
98 <222> LOCATION: (1)...(1087)
99 <223> OTHER INFORMATION: n = A,T,C or G
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103 caagtagggc ctttaaaacta ctacacctgt ttgtcttcta atttattctg ttttattttg      120
104 ttcccatcat ttttaaggggt taaaatcatc ttgttcagac ctccagcata aaaatgaccc      180
105 atctgttagc ctccaggctcc aaccataccc caagagttgt ctggttttgt ttaaattact      240
106 gccaggtttc agctgcagat atccctggaa ggaatattcc agattccctg agtagtttcc      300
107 aggtttaaatt cctataggct tcttctgttt tgaggaagag ttctgtctag agaaaaacat      360
108 gattttggat ttttaacttt aatgcttgtg aaacgctata aaaaaaattt totaccoccta      420
109 gctttaaagt actgttagtg agaaattaaa attccttcag gaggattaaa ctgccatttc      480
110 agttacccta attccaaatg ttttggtggt tagaatcttc tttaatgttc ttgaagaagt      540
W--> 111 gttttatatt ttcccatena gataaattct ctcnncctt nntttntnt ctnttttttt      600
W--> 112 aaaacggant cttgctccgt tgtccangct gggaaatttn ttttgccaa tctccgctnc      660
W--> 113 cttgcaanaa tncgtcntcc caaaattacc nctttttcc cactccacc ccnnggaatt      720
W--> 114 acctggaatt ahaggcccc ncccccccc cggttaattt gttttgttt ttagtaaaaa      780
W--> 115 acgggtttcc tgttttagtt aggatggccc anntctgacc cctnatcnt cccctcngc      840

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RAW SEQUENCE LISTING DATE: 09/25/2000
 PATENT APPLICATION: US/09/534,825A TIME: 11:22:28

Input Set : A:\419c7.app
 Output Set: N:\CRF3\09252000\I534825A.raw

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W--> 116 cctcnaatnt tnggnntang gcttaccccc ccnngnngtt tttcttccat tnaaattttc 900
W--> 117 tntggantct tgaatnncgg gttttccctt ttaaaccnat ttttttttn nnncccccان 960
W--> 118 ttttnectec ccctntnta angggggttt cccaaacgg gtcncccc angtecccaa 1020
W--> 119 tttttctccc cccccctctt tttctttnc cccaaaantc ctatcttttc cttnnaatat 1080
W--> 120 cnantnt 1087
122 <210> SEQ ID NO: 5
123 <211> LENGTH: 1010
124 <212> TYPE: DNA
125 <213> ORGANISM: Homo sapien
127 <220> FEATURE:
128 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (1)...(1010)
130 <223> OTHER INFORMATION: n = A,T,C or G
132 <400> SEQUENCE: 5
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134 agtaaacatt ctccacagtt tatgcaaaaa gtaacaaaac cactgcagat gacaaacact 120
135 aggtaacaca catactatct cccaaatacc taccacaaag ctcaacaatt ttaaactgtt 180
136 aggtacactg gctctaatac ccatgacatg aggtcaccac caaacatca agcgctaaac 240
137 agacagaatg tttccactcc tgatccactg tgtgggaaga agcaccgaac ttaccactg 300
W--> 138 gggggcctgc ntcanaanaa aagcccatgc ccccggtnt ncctttnaac cggaacgaat 360
W--> 139 naaccaccca tccccacanc tcctctgttc ntgggcccctg catcttggg cctcntntnc 420
W--> 140 tttnggggan acntggggaa ggtaccccat ttenttgacc ccnanaanaa acccngtgg 480
W--> 141 ccccttgccc tgattcnct gggccttttc tcttttccct tttgggtgt ttaaattccc 540
W--> 142 aatgtcccn gaacctctc cntnctgcc aaaacctacc taaattnctc nctangnntt 600
W--> 143 ttcttggtgt tcttttcaa aggtnacctt ncctgttcan nccnacnaa aatttnttc 660
W--> 144 ntatnntggn ccnnaaaaaa nnnatcnnc cnaattgccc gaattggtn ggtttttcct 720
W--> 145 nctgggggaa accctttaaa tttccccctt ggcgggcccc ccttttttc cccctttnga 780
W--> 146 aggcagnggg ttctccga acttccaatt ncaacagccn tgccattgn tgaaccctt 840
W--> 147 ttctataaat taaaaaatan ccggttnngg nnggcctctt tccctccng gngggngng 900
W--> 148 aaantcctta cccnaaaaaa ggttgcttag ccccggtcc cactcccc nggaaaaatn 960
W--> 149 aaccttttcn aaaaaaggaa tataanttn cactccttn gttctcttc 1010
151 <210> SEQ ID NO: 6
152 <211> LENGTH: 950
153 <212> TYPE: DNA
154 <213> ORGANISM: Homo sapien
156 <220> FEATURE:
157 <221> NAME/KEY: misc_feature
158 <222> LOCATION: (1)...(950)
159 <223> OTHER INFORMATION: n = A,T,C or G
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163 gctcactgca atctctgcc ccggggtcat gcgattctcc tgccctagcc ttccaagtag 120
164 ctgggattac aggcgtgcaa caccacccc ggctaatttt gtatttttaa tagagatggg 180
W--> 165 gttttccctt gttggccann atggtctcna accectgacc tcnngtgatc ccccccccn 240
W--> 166 nganctcna ctgctgggga tnnccgnnnn nnnctcccn ncnnnnnnn ncnnttcn 300
W--> 167 tnttccttnc tcnnnnnnnn cnntcnntcc nctctctnc cnntntntt cnncnccnn 360
W--> 168 cnncnccnt ncccnnnnt tcnctcnnn tntcnncnn ntcnncnnn cnnnntntn 420
W--> 169 ccnntacntc nttnnnnnnt cntctntnn cctcnncnt cctcnctnt tntctctcn 480
W--> 170 nttnnnnnct ccnntntct cntcnnnnn tncctcnntn nccncccc nctcnncnn 540

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W--> 171  ctnnttttnnn cnnnnnttcc ntncntttn nntccnntnn cnnntcnen nncntttttc 600
W--> 172  ccnccnnttc cttncnctn nnnntcnnn cncntcnntc ntttctctc nntcccnnc 660
W--> 173  tcnntttccc cnnntccnc cccnccctnt ctctcnccn nntnnnttn nnnntccnc 720
W--> 174  tntcncttc ntcnntnctn tncntcnnc nncnntcnnc tncntntnt ctnntcnen 780
W--> 175  tcnctntctn cncctcttn ctntctctn tntctctcc ctncctnct cttccnnc 840
W--> 176  ccnntntntn tnnccnnt nctnnncnc cttctttcn tctctnctn nntnnccctc 900
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180 <211> LENGTH: 1086
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182 <213> ORGANISM: Homo sapien
184 <220> FEATURE:
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186 <222> LOCATION: (1)...(1086)
187 <223> OTHER INFORMATION: n = A,T,C or G
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191  ctgttactgt gtctatgtag aaagaagtag acataagaga ttccattttg ttctgtacta 120
192  agaaaaattc ttctgccttg agatgctgtt aatctgtaac cctagcccca accctgtgct 180
193  cacagagaca tgtgctgtgt tgactcaagg ttcaatggat ttagggctat gctttgttaa 240
194  aaaagtgcct gaagataata tgcttggtta aagtcacac cattctctaa tctcaagtac 300
195  ccagggacac aatacaactgc ggaaggccgc agggacctct gtctaggaaa gccaggtatt 360
196  gtccaagatt tctccccatg tgatagcctg agatattggc tcatgggaag ggtaagacct 420
197  gactgtcccc cagcccgaca tccccagcc cgacatcccc cagcccgaca cccgaaaagg 480
W--> 198  gtctgtgctg aggaagatta ntaaagagg aaggctctt gcattgaagt aagaagaagg 540
199  ctctgtctcc tgctcgctcc tgggcaataa aatgtcttgg tgttaaaccc gaatgtatgt 600
200  tctacttact gagaatagga gaaaacatcc ttagggctgg aggtgagaca cctggcgcc 660
W--> 201  atactgtctt ttaatgcacg agatgtttgt ntaattgcc tccagggcca ncccccttcc 720
W--> 202  ttaacttttt atganacaaa aactttgttc ncttttctg cgaacctctc cccctattan 780
W--> 203  cctattggcc tgcccatccc ctcccaaan ggtgaaaana tgttcntaaa tncgagggaa 840
W--> 204  tccaaaaent tttcccgctg gtcctcttcc caaccccgtc cctgggccnn ttctctccc 900
W--> 205  aacntgtccc ggntcctttn ttccncccc ctcccnngan aaaaaacccc gntnganggn 960
W--> 206  gccccctcaa attataacct ttccnaaaca aannggtttn aaggtggttt gnttccggtg 1020
W--> 207  cggtggcct tgaggctccc cctncacccc aatttgaan cngtttttt ttattgccn 1080
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211 <211> LENGTH: 1177
212 <212> TYPE: DNA
213 <213> ORGANISM: Homo sapien
215 <220> FEATURE:
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217 <222> LOCATION: (1)...(1177)
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223  atggtgttta aatccagcta cactacttcc tgactcaaac tccactatc ctgttcatga 180
224  ctgtcaggaa ctgttggaac ctactgaaac tggccgacct gatcttcaa atgtgccct 240
W--> 225  aggaaggtg gatgccaccg tgttcacaga cagtacncc ttctcgaga agggactacg 300

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W--> 226 aggggcccgt gcanctgtta ccaaggagac tnatgtgttg tgggctcagg ctttaccanc 360
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      228 gggatattaa cgttaacact gacagcaggt acgcctttgc tactgtgcat gtacgtggag 480
W--> 229 ccacttacca ggagcgtggg ctactcact ggcagggtgc tgnatccac tgtaaangga 540
W--> 230 catcaaaagg aaaacnnggc tgttgcccggt ggtaaccana aanctgaten ncagctcnaa 600
W--> 231 gatgctgtgt tgactttcac tcnncctct taaacttgct gcccacantc tcctttccca 660
W--> 232 accagatctg cctgacaatc cccatactca aaaaaaaaaa aanactggcc ccgaaccna 720
W--> 233 accaataaaa acgggggagg tnggtnganc nncctgaccc aaaaataatg gatccccggg 780
W--> 234 gctgcaggaa ttcaattcan cttatcnat acccccaacn nggngggggg ggcngtnc 840
W--> 235 cattnccctt ntattnatte tttnncccc ccccggent cctttttnaa ctctgaaag 900
W--> 236 ggaaaacctg ncttaccan ttatcnctg gacntcccc tccncggtg gnttanaaaa 960
W--> 237 aaaagccnc antccntcc naaatttgca cngaaaggna aggaatttaa cttttatttt 1020
W--> 238 ttnntccttt antttgtann cccctttta cccaggcgaa cngccatcnt ttaanaaaaa 1080
W--> 239 aaanagaang tttatttttc cttngaacca tcccaatana aancaccgc nggggaacgg 1140
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      243 <211> LENGTH: 1146
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      245 <213> ORGANISM: Homo sapien
      247 <220> FEATURE:
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      249 <222> LOCATION: (1)...(1146)
      250 <223> OTHER INFORMATION: n = A,T,C or G
      252 <400> SEQUENCE: 9
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      255 agactccatc agtgaggtca aagcctgggg cttttcagag aaggagggat tatgggtttt 180
      256 ccaattatac aagtcagaag tagaaagaag ggacataaac caggaagggg gtggagcact 240
      257 catcaccctg agggacttgt gctctctca gtggtagtag aggggctact tcctccacc 300
W--> 258 acggttgcaa ccaagaggca atgggtgatg agcctacagg ggacatancc gaggagacat 360
      259 gggatgaccc taagggagta ggctggtttt aaggcgggtg gactgggtga gggaaactct 420
      260 cctcttcttc agagagaagc agtacagggc gagctgaacc ggctgaaggc cgagggcgaaa 480
      261 acacggtctg gctcaggaa accttggaag taaaattatg aatggtgcat gaatggagcc 540
      262 atggaagggg tgctcctgac caaactcagc cattgatcaa tgttagggaa actgatcagg 600
      263 gaagccggga atttcattaa caaccgcaca cacagcttga acattgtgag gttcagtgac 660
W--> 264 ctttcaaggg gccactccac tccaactttg gccattctac tttgcnaaat ttccaaaact 720
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W--> 266 ggaaaaggcc cancccttac cagggtggaa gaaattttnc cttttttttt tttttgaagg 840
W--> 267 cntttnttaa attgaacctn aattcncccc cccaaaaaaa aaccnccng gggggcggtat 900
W--> 268 ttccaaaaaa naattccctt accaaaaaac aaaaaccnc ccttnttccc ttccnccctn 960
W--> 269 ttcttttaat tagggagaga tnaagcccc caatttccng gncngatnn gtttcccccc 1020
W--> 270 cccccatttt ccnaaacttt ttccancna ggaanccnc ctttttttng gtengattna 1080
W--> 271 ncaaccttcc aaaccatttt tccnnaaaaa ntttgntng ngggaaaaan acctntttt 1140
W--> 272 atagan 1146
      274 <210> SEQ ID NO: 10
      275 <211> LENGTH: 545
      276 <212> TYPE: DNA
      277 <213> ORGANISM: Homo sapien
      279 <400> SEQUENCE: 10

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FYI

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

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L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:117 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
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L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
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L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/534,825A

DATE: 09/25/2000

TIME: 11:22:29

Input Set : A:\419c7.app

Output Set: N:\CRF3\09252000\I534825A.raw

L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7